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November 16, 2005
Date of Deposit

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PCT NATIONAL STAGE APPLICATION OF
FRANZ HAMMERSCHMID

INTERNATIONAL APPLICATION NO: PCT/EP2003/010048

FILED: 10 SEPTEMBER 2003

U.S. APPLICATION NO: 10/524,899

35 USC §371 DATE: 17 FEBRUARY 2005

FOR: SCREENING ASSAY FOR IDENTIFYING AGENTS THAT
MODULATE PAK KINASE OR CD45 TYROSINE PHOSPHATASE
ACTIVITY

MS: Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

This paper is supplemental to the Information Disclosure Statement filed February 17, 2005. Since Applicant believes this paper is being filed before the mailing date of a first Office Action on the merits, no fees are believed to be required under 37 C.F.R. §1.97(b)(3). If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-0134.

In accordance with 37 C.F.R. §1.56, applicant wishes to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

Copies of these references are enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

Novartis
Corporate Intellectual Property
One Health Plaza, Building 104
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(862) 778-2614



Gregory C. Houghton
Attorney for Applicant
Reg. No. 47,666

Date: 11/16/08

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
PD/4-32578A
APPLICATION NO.
10/524,899
APPLICANT
Franz Hammerschmid
FILING DATE
FEBRUARY 17, 2005

Group

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	5,763,198	6/9/98	Hirth et al.	435	7.21	7/22/94
	AB	6,228,989	5/8/01	Traugh et al.	530	350	11/13/98
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AM	2,011,768	9/10/90	CA			<input type="checkbox"/>	<input type="checkbox"/>
	AN	3066502	3/22/91	JP			<input type="checkbox"/>	<input type="checkbox"/>
	AO	2003048499	2/18/03	JP			<input type="checkbox"/>	<input type="checkbox"/>
	AP	90/01023	2/8/90	WO			<input type="checkbox"/>	<input type="checkbox"/>
	AQ	93/03377	2/18/93	WO			<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AR	Brenner et al., "Activation of an S6/H4 Kinase (PAK 65) from Human Placenta by Intramolecular and Intermolecular Autophosphorylation", J. Biol. Chem., Vol. 270, No. 36, pp. 21121-21128 (1995).
	AS	Chang et al., "Insulin Stimulation of Mitogen-Activated Protein Kinase, p90 ^{RSK} , and p70 S6 Kinase in Skeletal Muscle of Normal and Insulin-Resistant Mice", J. Biol. Chem., Vol. 270, No. 50, pp. 29928-29935 (1995).
	AT	Cho et al., "Catalytic Domains of the LAR and CD45 Protein Tyrosine Phosphatases from <i>Escherichia coli</i> Expression Systems: Purification and Characterization for Specificity and Mechanism", Biochemistry, Vol. 31, No. 1, pp. 133-138 (1992).

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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							YES	NO
	BA	94/17095	8/4/94	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BB	96/40276	12/19/96	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BC	97/31113	8/28/97	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BD	98/18956	5/7/98	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BE	00/08173	2/17/00	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BF	00/47760	8/17/00	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BG	00/53801	9/14/00	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BH	00/62315	10/19/00	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BI	00/73468	12/7/00	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BJ	00/75167	12/14/00	WO			<input type="checkbox"/>	<input type="checkbox"/>
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	BL	01/32918	5/10/01	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BM	01/44497	6/21/01	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BN	01/45681	6/28/01	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BO	01/61031	8/23/01	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BP	02/14542	2/21/02	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BQ	02/36166	5/10/02	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BR	02/078610	10/10/02	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BS	02/083933	10/24/02	WO			<input type="checkbox"/>	<input type="checkbox"/>
	BT						<input type="checkbox"/>	<input type="checkbox"/>
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CA	Cho et al., "Substrate Specificities of Catalytic Fragments of Protein Tyrosine Phosphatases (HPTP β , LAR, and CD45) Toward Phosphotyrosylpeptide Substrates and Thiophosphotyrosylated Peptides as Inhibitors", Protein Science, Vol. 2, No. 6, pp. 977-984 (1993).
CB	Ferrari et al., "Mitogen-Activated 70K S6 Kinase", J. Biol. Chem., Vol. 266, pp. 22770-22775 (1991).
CC	Huang et al., "3,6-Fluorescein Diphosphate: A Sensitive Fluorogenic and Chromogenic Substrate for Protein Tyrosine Phosphatases", J. Biomol. Screen, Vol. 4, No. 6, pp. 327-334 (1999).
CD	Laser et al., "Differential Activation of p70 and p85 S6 Kinase Isoforms During Cardiac Hypertrophy in the Adult Mammal", J. Biol. Chem., Vol. 273, pp. 24610-24619 (1998).
CE	McDonald et al., " β -Amyloid Fibrils Activated Parallel Mitogen-Activated Protein Kinase Pathways in Microglia and THP1 Monocytes", J. Neurosci., Vol. 18, pp. 4451-4460 (1998).
CF	Meyer-Almes et al., "Enzyme Inhibition Assays Using Fluorescence Correlation Spectroscopy: A New Algorithm for the Derivation of K_{cat}/K_M and K_i Values at Substrate Concentrations Much Lower than the Michaelis Constant", Biochem. Vol. 39, pp. 13261-13268 (2000).
CG	Morrice et al., "A Cardiolipin-Activated Protein Kinase from Rat Liver Structurally Distinct from the Protein Kinases C", J. Biol. Chem., Vol. 269, No. 31, pp. 20040-20046 (1994).
CH	Morrice et al., "Differential Effects of Fatty Acid and Phospholipid Activators on the Catalytic Activities of a Structurally Novel Protein Kinase from Rat Liver", FEBS Letters, Vol. 351, No. 2, pp. 171-175 (1994).
CI	Ng et al., "Non-Radioactive Method to Measure CD45 Protein Tyrosine Phosphatase Activity Isolated Directly from Cells", J. Immunol. Meth., Vol. 179, No. 2, pp. 177-185 (1995).
CJ	Pelech et al., "Mitogen-Activated S6 Kinase Is Stimulated via Protein Kinase C-Dependent and Independent Pathways in Swiss 3T3 Cells", J. Biol. Chem. Vol. 262, No. 24, pp. 11598-11606 (1987).
CK	Peng et al., "Phosphorylation Events Associated with Different States of Activation of a Hepatic Cardiolipin/Protease-Activated Protein", J. Biol. Chem. Vol. 271, No. 50, pp. 32233-32240 (1996).
CL	Poteet-Smith et al., "Generation of Constitutively Active p90 Ribosomal S6 Kinase in Vivo", J. Biol. Chem., Vol. 274, No. 48, pp. 22135-22138 and 34506 (1999).
CM	Urbanek et al., "Potent Reversible Inhibitors of the Protein Tyrosine Phosphatase CD45", J. Med. Chem., Vol. 44, No. 1777-1793 (2001).
CN	Terada et al., "Failure of Rapamycin to Block Proliferation Once Resting Cells Have Entered the Cell Cycle Despite Inactivation of p70 S6 Kinase", J. Biol. Chem. Vol. 268, No. 16, pp. 12062-12068 (1993).

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	DA	Terada et al., "Rapamycin Inhibits Ribosomal Protein Synthesis and Induces G1 Prolongation in Mitogen-Activated T Lymphocytes", J. Immunol., Vol. 155, pp. 3418-3426 (1995).
	DB	Wettenhall et al., "Determinants of Multi-Site Phosphorylation of Peptide Analogues of Ribosomal Protein S6 by Novel Protease-Activated Protein Kinases", Pept. Res. Vol. 4, No.3, pp. 158-170 (1991).
	DC	Yu et al., "Isolation and Characterization of a Structural Homologue of Human PRK2 from Rat Liver", J. Biol. Chem. Vol. 272, No. 15, pp. 10030-10034 (1997).
	DD	Yu et al., "Enzyme-Linked Immunosorbent Assay for the Determination of p21-Activated Kinase Activity", J. Biochem. Vol. 129, pp. 243-251 (2001).
	DE	Zhao et al., "Regulation and Interaction of pp90 ^{rsk} Isoforms with Mitogen-Activated Protein Kinases", J. Biol. Chem. Vol. 271, pp. 29773-29779 (1996).
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